

AC GROUNDING STRUCTURE FOR ELECTRONICS ENCLOSURE**ABSTRACT OF THE DISCLOSURE**

5 An electronic device enclosure grounding structure (200) that provides a low impedance path to ground for selected AC frequencies. A conductive portion of an electronic enclosure, such as a conductive back (108) of a cell phone (100) has a capacitive coupling to a second surface (206) that is conductively isolated from the enclosure. Second surface (206) is connected to a ground point (207) through a
10 conductive arm (205) that has a predefined inductance. The resulting series capacitance-inductance circuit (300) allows a reactive connection between the enclosure (108) and ground (207) that has a settable resonant frequency.